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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
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NEWS 3	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS 4	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 5	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS 6	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS 7	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS 8	JAN 30	Saved answer limit increased
NEWS 9	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS 10	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS 11	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS 12	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 13	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS 14	FEB 28	TOXCENTER reloaded with enhancements
NEWS 15	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS 16	MAR 01	INSPEC reloaded and enhanced
NEWS 17	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 18	MAR 08	X.25 communication option no longer available after June 2006
NEWS 19	MAR 22	EMBASE is now updated on a daily basis
NEWS 20	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 21	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS 22	APR 04	STN AnaVist $500 visualization usage credit offered
NEWS 23	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 24	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS 25	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
http://download.cas.org/express/v8.0-Discover/

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FILE 'HOME' ENTERED AT 09:24:15 ON 27 APR 2006

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 09:24:49 ON 27 APR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 27 Apr 2006 VOL 144 ISS 18
FILE LAST UPDATED: 26 Apr 2006 (20060426/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

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=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.46	0.67

FILE 'CAPLUS' ENTERED AT 09:24:57 ON 27 APR 2006
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FILE COVERS 1907 - 27 Apr 2006 VOL 144 ISS 18
FILE LAST UPDATED: 26 Apr 2006 (20060426/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

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E4            0     4874-19-5D/RN
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E6            1     4874-25-3/BI
E7            2     4874-26-4/BI
E8            2     4874-27-5/BI
E9            2     4874-28-6/BI
E10           9     4874-29-7/BI
E11           1     4874-29-7D/BI
E12           1     4874-29-7DP/BI
E13           2     4874-29-7P/BI
E14           5     4874-30-0/BI
E15           4     4874-30-0P/BI
E16           2     4874-31-1/BI
E17           4     4874-32-2/BI
E18           1     4874-32-2P/BI
E19          19     4874-33-3/BI
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E25           1     4874-36-6D/BI

=> S E3
L1            1 4874-19-5D/BI

=> D L1

L1   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2004:120553  CAPLUS
DN   140:184417
TI   Bicyclic thioureas as lubricating oil antiwear, anticorrosion, and
     antioxidant additives to replace zinc dialkyl dithiophosphates
IN   Mukkamala, Ravindranath
PA   USA
SO   U.S. Pat. Appl. Publ., 4 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
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PI   US 2004029743         A1    20040212    US 2003-636111          20030807
     EP 1394241            A1    20040303    EP 2003-254689          20030728
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     JP 2004162027         A2    20040610    JP 2003-287826          20030806
PRAI US 2002-401540P       P     20020807
OS   MARPAT 140:184417


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E6            6     5366-11-0P/BI
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             6 5366-11-0P/BI
L2          34 5366-11-0/BI OR 5366-11-0D/BI OR 5366-11-0DP/BI OR 5366-11-0P/BI

=> DIS L2 1 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2   ANSWER 1 OF 34  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2004:120553  CAPLUS
DOCUMENT NUMBER:          140:184417
TITLE:                    Bicyclic thioureas as lubricating oil antiwear,
                          anticorrosion, and antioxidant additives to replace
                          zinc dialkyl dithiophosphates
INVENTOR(S):              Mukkamala, Ravindranath
PATENT ASSIGNEE(S):       USA
SOURCE:                   U.S. Pat. Appl. Publ., 4 pp.
                          CODEN: USXXCO
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DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004029743	A1	20040212	US 2003-636111	20030807
EP 1394241	A1	20040303	EP 2003-254689	20030728
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004162027	A2	20040610	JP 2003-287826	20030806
PRIORITY APPLN. INFO.:			US 2002-401540P P	20020807

OTHER SOURCE(S): MARPAT 140:184417
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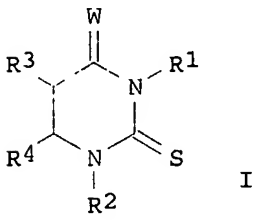

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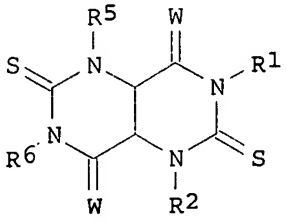

II

ABSTRACT:
Cyclic and bicyclic thiourea-based lubricating oil antiwear, corrosion inhibitor, and antioxidant additives, as suitable replacements for zinc dialkyl dithiophosphates, are of general structure I, in which W = O or S; R1 and R2 are H, alkyl, alkenyl, aryl, or aralkyl; R3 and R4 are H, alkyl, alkenyl, aryl, or aralkyl, or R3 and R4 combine with ring carbon atoms to which they are attached to form a five-, six-, or seven-membered heterocyclic ring. At least one of R1-4 is C6-22-alkyl. In addition, the additives can be of general structure II, in which R1 and R2 are as described above, and R5. and R6 are H, alkyl, alkenyl, aryl, or aralkyl. The additives are present at 0.1-20 weight% concentration

=> DIS L2 2 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:107608 CAPLUS
DOCUMENT NUMBER: 134:203693
TITLE: Biorational design, synthesis, and inhibition of photosystem II inhibitors
AUTHOR(S): Liu, Huayin; Sha, Yinlin; Yu, Aiming; Tan, Huifen; Yang, Huazheng
CORPORATE SOURCE: State Key Laboratory of Elemento-Organic Chemistry, Institute of Elemento-Organic Chemistry, Nankai University, Tianjin, 300071, Peop. Rep. China
SOURCE: ACS Symposium Series (2001), 774(Agrochemical Discovery), 226-235
CODEN: ACSMC8; ISSN: 0097-6156
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
ABSTRACT:
A review with 19 refs. Mol. modeling of cyanoacrylates(cyanoacrylamides) with D1 protein of Pisum sativum have been presented. Studies show that the binding

force includes mainly: H-bond interaction, Van der Waals and π-ring stacking interaction. It was found that SER 268 in D1 protein might be an important binding site. Thus some new cyanoacrylates (cyanoacrylamides) were designed and synthesized. For rapid optimization, combinatorial methods were introduced to synthesize 3-N-substituted (2-thio)hydrouracils library by the acidic cyclization-cleavage of ureas and thioureas from Wang resin. Their Hill inhibition is discussed.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L2 3 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:250700 CAPLUS
DOCUMENT NUMBER: 128:295059
TITLE: Preparation of pyridyl- and naphthyridylalkoxybenzoyl-α-(phenylsulfonylamino)-β-alanine derivatives and analogs for inhibiting osteoclast-mediated bone resorption
INVENTOR(S): Hartman, George D.; Duggan, Mark E.; Hoffman, William F.; Ihle, Nathan C.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: U.S., 57 pp., Cont.-in-part of U.S. Ser. No. 250,218, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5741796	A	19980421	US 1996-714097	19960926
WO 9532710	A1	19951207	WO 1995-US5938	19950512
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5929120	A	19990727	US 1998-15982	19980130
PRIORITY APPLN. INFO.:			US 1994-250218	B2 19940527
			WO 1995-US5938	W 19950512
			US 1996-714097	A3 19960926

OTHER SOURCE(S): MARPAT 128:295059
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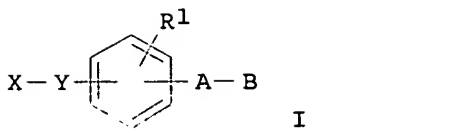

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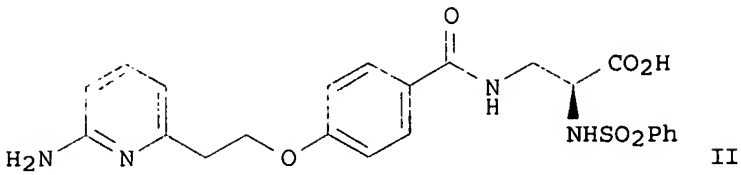

II

ABSTRACT:
Compds. of structure I [X = various amino, amidino, guanidino, and N-heterocyclic groups; Y = alkylene, alkynylene, alkenylene, etc.; B = alkylene with optional amide moiety in chain; R1 = H, alkoxyalkyl, alkoxycarbonylalkyl, (di)(alkyl)aminoalkyl, aralkyl; R6, R7 = H, (di)alkylaminoalkyl, alkoxycarbonylaminoalkyl, alkylsulfonylaminoalkyl, alkylcarbonylaminoalkyl; R12 = OH, alkoxy, dialkylaminocarbonylmethoxy, aryldialkylaminocarbonylmethoxy; with provisos], are described which inhibit osteoclast-mediated bone resorption. Specifically, the compds. are useful for treating mammals suffering from a bone condition caused or mediated by increased bone resorption, who are in need of such therapy. The compds. may be administered in oral dosage forms such as tablets, capsules, e.g. sustained release capsules, powders, granules, and suspensions. Syntheses of approx. 50 compds. in 37 synthetic examples are described. Thus, amidation of Me 4-[2-(4-aminopyridin-6-yl)ethoxy]benzoic acid (preparation given) with (R)-H2NCH2CH(NHSO2Ph)CO2CMe3.HCl (preparation given) using EDC, N-hydroxybenzotriazole (HOBt), and N-methylmorpholine in DMF, followed by deprotection with CF3CO2H gave desired compound II. In EIB and OCFORM assays, prepared compds. I had values ranging 0.5-500 nM and 1-1000 nM, resp.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L2 4 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:181547 CAPLUS
DOCUMENT NUMBER: 124:232066
TITLE: N-(Guanidinoalkoxybenzoyl)-α-(phenylsulfonylamino)-β-alanine derivatives and analogs for inhibiting osteoclast-mediated bone resorption
INVENTOR(S): Hartman, George D.; Duggan, Mark E.; Ihle, Nathan C.; Hoffman, William F.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: PCT Int. Appl., 241 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9532710	A1	19951207	WO 1995-US5938	19950512

W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

CA 2190870	AA	19951207	CA 1995-2190870	19950512
AU 9525868	A1	19951221	AU 1995-25868	19950512
AU 701776	B2	19990204		
EP 760658	A1	19970312	EP 1995-920409	19950512
EP 760658	B1	20021113		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 10501222	T2	19980203	JP 1996-500899	19950512
AT 227567	E	20021115	AT 1995-920409	19950512
ES 2186720	T3	20030516	ES 1995-920409	19950512
US 5741796	A	19980421	US 1996-714097	19960926
PRIORITY APPLN. INFO.:			US 1994-250218 A	19940527
			WO 1995-US5938 W	19950512

OTHER SOURCE(S): MARPAT 124:232066
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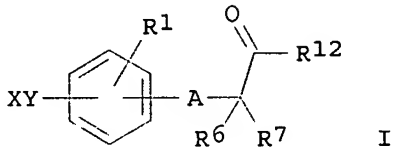

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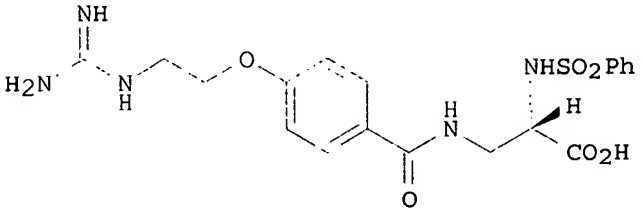

II

ABSTRACT:
Compds. of structure I [X = various amino, amidino, guanidino, and N-heterocyclic groups; Y = alkylene, alkynylene, alkenylene, etc.; B = alkylene with optional amide moiety in chain; R1 = H, alkoxyalkyl, alkoxycarbonylalkyl, (di)(alkyl)aminoalkyl, aralkyl; R6, R7 = H, (di)alkylaminoalkyl, alkoxycarbonylaminoalkyl, alkylsulfonylaminoalkyl, alkylcarbonylaminoalkyl; R12 = OH, alkoxy, dialkylaminocarbonylmethoxy, aryldialkylaminocarbonylmethoxy; with a proviso], which inhibit osteoclast-mediated bone resorption. Syntheses of approx. 50 compds. in 37 synthetic examples are described. For example, amidation of 4-(BOC-NHCH2CH2O)C6H4CO2H with (R)-H2NCH2CH(NHSO2Ph)CO2Bu-tert.HCl [preparation given] using BOP reagent and NMM in MeCN, followed by deprotection with CF3CO2H and condensation of the amine with DPFN [3,5-dimethyl-1-pyrazolylformamidine nitrate], gave title compound II. In the EIB and OCFORM assays, I had values ranging 0.5-500 nM and 1-1000 nM, resp.

=> DIS L2 5 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:605449 CAPLUS
DOCUMENT NUMBER: 123:127424
TITLE: Method for processing a black-and-white silver halide

photographic light-sensitive material.
INVENTOR(S): Fukawa, Junichi; Goto, Kenji; Sampei, Takeshi
PATENT ASSIGNEE(S): Konica Corp., Japan
SOURCE: Eur. Pat. Appl., 63 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 631179	A1	19941228	EP 1994-303803	19940526
EP 631179	B1	20000405		
R: DE, FR, GB, IT				
JP 06347953	A2	19941222	JP 1993-138704	19930610
JP 3350739	B2	20021125		
US 5441847	A	19950815	US 1994-249455	19940526
PRIORITY APPLN. INFO.:			JP 1993-138704 A	19930610

OTHER SOURCE(S): MARPAT 123:127424
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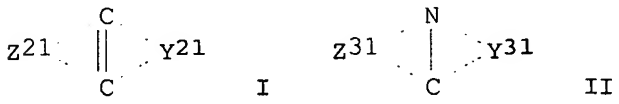
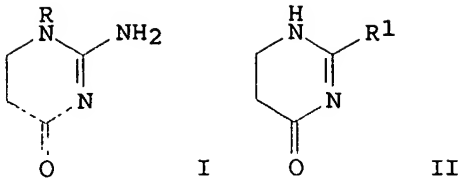


ABSTRACT:
A method is described of processing, using an automatic processor, a black-and-white Ag halide photog. light-sensitive material containing a hydrazine compound and a redox compound capable of releasing an inhibitor upon oxidation, wherein a developer is replenished by a developer replenisher at a rate of ≤200 mL/m2 of the photog. material, and the developer has a pH of 9.5 to 10.8. The developer further contains Z-SM, I, or II [Z = alkyl, aryl, or heterocyclyl each of which has ≥1 group selected from OH, SO3M1, CO2M1, amino, ammonio, or a group containing ≥1 of the above group as substituent; M = H, alkali metal, amidino; M1 = H, alkali metal, ammonium; Y21 and Z21, Y31 and Z31 = atoms necessary to form a ring, and thus formed ring contain ≥3 N atoms and are substituted by a mercapto group]. The material produces high contrast images without deteriorating the sensitivity and the without producing spots.

=> DIS L2 6 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 6 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:88492 CAPLUS
DOCUMENT NUMBER: 104:88492
TITLE: Heterocycles. 79. N1- and N2-substituted 2-amino-5,6-dihydro-4(1H)-pyrimidinones
AUTHOR(S): Wendelin, Winfried; Riedl, Renate
CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Graz, Graz, A-8010, Austria
SOURCE: Monatshefte fuer Chemie (1985), 116(2), 237-51
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 104:88492
GRAPHIC IMAGE:



I II

ABSTRACT:
The reactions of RNHC(:NH)NH2 (R = Me, hexyl, cyclohexyl, CH2Ph, CH2CH2Ph, Ph, 1-naphthyl) with Me acrylate in DMF or EtOH preferentially afford dihydropyrimidinones I. The structures of I (R = hexyl, CH2Ph, Ph) were proved by comparison with authentic samples, which were prepared from RNHCH2CH2CO2Et and H2NCN. I (R = Ph) is not identical with authentic 2-phenylamino-5,6-dihydro-4-pyrimidinone (prepared from 2-methylthio-5,6-dihydro-4-pyrimidinone). HN:CR1NH (R1 = pyrrolidino, hexamethyleneimino, morpholino, N-methylpiperazino) react with Me acrylate in DMF to afford dihydropyrimidinones II. Action of morpholine-4-carboxamidine on Me acrylate in EtOH yields II (R1 = morpholino) as byproduct and EtOCH2CH2CON:CR1NH2 as main product.

=> DIS L2 7 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	1985:24345 CAPLUS
DOCUMENT NUMBER:	102:24345
TITLE:	Borane reduction of uracil derivatives
AUTHOR(S):	Ghosh, Chandrakanta; Schmidt, Diane Grob; Pal, Bimal C.
CORPORATE SOURCE:	Inf. Div., Oak Ridge Natl. Lab., Oak Ridge, TN, 37831, USA
SOURCE:	Journal of Organic Chemistry (1984), 49(26), 5256-7 CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 102:24345
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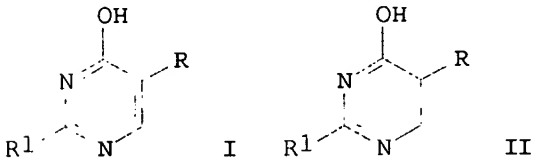

I II

ABSTRACT:
The reduction of uracil derivs. with BH3-THF was studied. Pyrimidinols I (R = CO2H, R1 = SH, OH) undergo reduction of the 5,6-double bond with concomitant decarboxylation to form dihydropyrimidines II (R = H, R1 = SH, OH) in 77 and 27% yield, resp. I (R = CO2Et, R1 = SH, SCH2Ph) form II (R = CO2Et, R1 = SH) and I (R = CH2OH, R1 = SCH2Ph) in 76 and 42 % yield, resp. Orotic acid and I (R = CO2H, R1 = SCH2Ph; R = H, R1 = SH; R = F, iodo, R1 = OH) did not react. The presence of an electron-withdrawing functional group such as CO2Et at C-5 of the pyrimidine ring facilitates reduction of the 5,6-double bond. I (R = CH2OH, R1 = SCH2Ph) was debenzylated to I (R = CH2OH, R1 = SH) with Na-NH3.

=> DIS L2 8 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:57902 CAPLUS
DOCUMENT NUMBER: 92:57902
TITLE: Structure and tautomerism of the neutral and monoanionic forms of 2-thiouracil, 2,4-dithiouracil, their nucleosides, and some related derivatives
AUTHOR(S): Psoda, Anna; Shugar, David
CORPORATE SOURCE: Inst. Exp. Phys., Univ. Warsaw, Warsaw, 02-089, Pol.
SOURCE: Acta Biochimica Polonica (1979), 26(1-2), 55-72
CODEN: ABPLAF; ISSN: 0001-527X
DOCUMENT TYPE: Journal
LANGUAGE: English
GRAPHIC IMAGE: For diagram(s), see printed CA Issue.
ABSTRACT:
UV and IR data indicate that the monoanionic form of aqueous 2-thiouracil exists as the .apprx.1:1 I-II tautomeric equilibrium mixture; the charge is localized on the O atom in contrast to the charge delocalization in 2,4-dioxopyrimidines or 4-thiouracil monoanions. Neutral 2,4-dithiouracil and 2,4-dithiouridine exist in the dithione form in both aqueous and nonaq. media. The monoanion of 2,4-dithiouracil exists as the tautomer mixture 95:5 III-IV; the monoanion tautomers are delocalized as is the monoanion of dithiouridine.
2-(Methylthio)-4-pyrimidinone exists as V in CHCl3 and as a .apprx.1:1 V-VI equilibrium mixture in H2O.

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	36.03	36.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.00	-6.00

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=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	36.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.00

FILE 'CAPLUS' ENTERED AT 09:29:13 ON 27 APR 2006

FILE COVERS 1907 - 27 Apr 2006 VOL 144 ISS 18
FILE LAST UPDATED: 26 Apr 2006 (20060426/ED)

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 9 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1979:104940 CAPLUS
DOCUMENT NUMBER: 90:104940
TITLE: Mercaptoheterocyclic resin stabilizers
INVENTOR(S): Sekiguchi, Tetsuo; Abe, Masami; Tsuruga, Kouji; Tominaga, Nobuhide
PATENT ASSIGNEE(S): Argus Chemical Corp., USA
SOURCE: U.S., 12 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4105627	A	19780808	US 1976-725356	19760920
PRIORITY APPLN. INFO.:			US 1976-725356 A	19760920

ABSTRACT:
Mercaptan derivs. of heterocyclic amines in combination with epoxides, organic phosphites, or metal salts of fatty acids are heat stabilizers for polymers. Thus, poly(vinyl fluoride) [24981-14-4] 100, tris(nonylphenyl) phosphite 0.3, and 2-mercapto-4-hydroxy-6-methylpyrimidine (I) [56-04-2] 0.1 part were mixed on a 2-roll mill 3 min at 210° and molded 5 min at 250° and 100 kg/cm2. The sheet was colorless, compared with carbonized and brittle in the absence of I.

=> DIS L2 10 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:561303 CAPLUS
DOCUMENT NUMBER: 85:161303
TITLE: Heat stabilizers for vinyl halide resins
INVENTOR(S): Sekiguchi, Tetsuo; Abe, Masami; Tsuruga, Koji; Tominaga, Nobuhide
PATENT ASSIGNEE(S): Adeka Argus Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51088542	A2	19760803	JP 1975-13797	19750131
PRIORITY APPLN. INFO.:			JP 1975-13797 A	19750131

ABSTRACT:
PVC [9002-86-2] (optionally containing ABS [9003-56-9]) and poly(vinyl fluoride) [24981-14-4] contained heterocyclic compds. containing -N:C(SH)NRC(:R1)- groups (R = H, alkyl, aryl; R1 = O, S; including tautomeric forms or salts) as heat stabilizers. For example, a PVC composition containing DOP 50, epoxidized soybean oil
2, tris(nonylphenyl) phosphite 0.5, stearic acid 0.5, and 3,5-dimercapto-1,2,4-triazole (I) [5650-03-3] 0.05 phr had heat stability (175°) 60 min, compared with 30 min for a control not containing I.

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.94	42.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.50	-7.50

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=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	42.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.50

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L2 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:547731 CAPLUS
DOCUMENT NUMBER: 85:147731
TITLE: Studies on the inhibition of metal corrosion. III. Some thiocarbonyl compounds as corrosion inhibitors for copper in acid solution
AUTHOR(S): Hirooka, Motoko; Zen, Shonosuke
CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, Japan
SOURCE: Nippon Kagaku Kaishi (1976), (7), 1167-70
CODEN: NKAKB8; ISSN: 0369-4577
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
ABSTRACT:
Thiocarbonyl compds. were effective corrosion inhibitors in acidic media. The most effective compound was 2-mercaptobenzimidazole [583-39-1] which had 92.1 and 100% inhibitive effect at the concentration of 32 and 250 ppm, resp. The effect was due to the formation of an insol. chelate film on the Cu surface. The chelate structure was identified by ir spectra.

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.20	45.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-8.25

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 21, 2006 (20060421/UP).

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	46.02

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.25

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FILE COVERS 1907 - 27 Apr 2006 VOL 144 ISS 18
FILE LAST UPDATED: 26 Apr 2006 (20060426/ED)

=> DIS L2 12 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.74 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:432949 CAPLUS
DOCUMENT NUMBER: 85:32949
TITLE: Cyclization of N-(2-cyanoethyl)thioureas to 5,6-dihydro-2-thiouracils
AUTHOR(S): Dembecki, Marga; Pyl, Theodor
CORPORATE SOURCE: Sekt. Chem., Ernst-Moritz-Arndt-Univ., Greifswald, Ger. Dem. Rep.
SOURCE: Zeitschrift fuer Chemie (1976), 16(4), 148-50
CODEN: ZECEAL; ISSN: 0044-2402
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 85:32949
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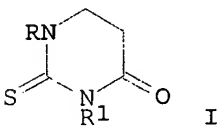

I

ABSTRACT:
Dihydrothiouracils I (R = H, Me, Et, CHMe2, Bu, Ph, CH2Ph; R1 = H, Me, Ph) (19 compds.) were prepared in 25-100% yields by cyclization of R1NHCSNRCH2CH2CN by heating with dilute or concentrated HCl. Refluxing I (R or R1 = H) with BzCl in pyridine gave 20-100% I (R = Me, Et, CHMe2, Bu, Ph, CH2Ph, R1 = Bz; R = Bz, R1 = Me, Ph).

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=> D L3

L3   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2004:120553  CAPLUS
DN   140:184417
TI   Bicyclic thioureas as lubricating oil antiwear, anticorrosion, and
     antioxidant additives to replace zinc dialkyl dithiophosphates
IN   Mukkamala, Ravindranath
PA   USA
SO   U.S. Pat. Appl. Publ., 4 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
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PI   US 2004029743         A1    20040212    US 2003-636111           20030807
     EP 1394241            A1    20040303    EP 2003-254689           20030728
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     JP 2004162027         A2    20040610    JP 2003-287826           20030806
PRAI US 2002-401540P       P     20020807
OS   MARPAT 140:184417


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LOGOFF? (Y)/N/HOLD:y
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       7.67      53.69

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -0.75      -9.00

STN INTERNATIONAL LOGOFF AT 09:32:41 ON 27 APR 2006
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